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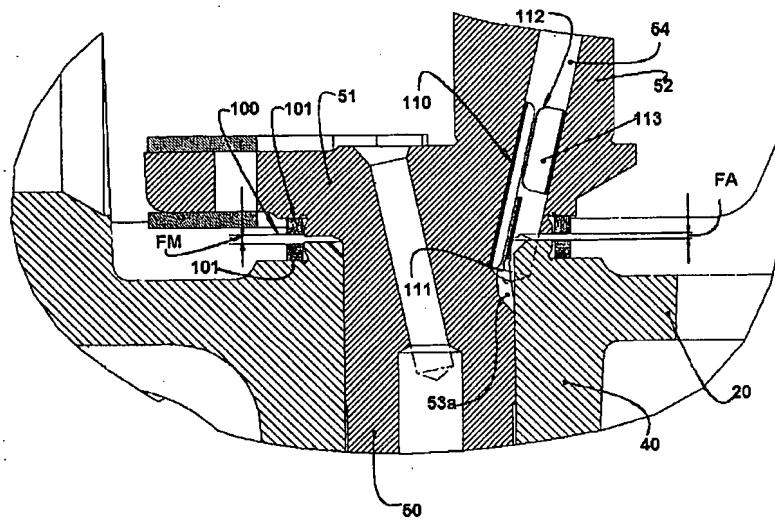
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(54) Title: AXIAL BEARING ARRANGEMENT IN A HERMETIC COMPRESSOR



(57) Abstract: A magnetic axial bearing arrangement in a reciprocating hermetic compressor, comprising: a cylinder block (20) and a radial bearing hub (40); a crankshaft (50) securing a rotor (61) of an electric motor (60), said arrangement comprising at least one magnetic axial bearing assembly (100) formed of a pair of magnet elements (101), a magnet element (101) of each pair being mounted to a respective part of at least one of the pairs of parts of crankshaft (50) and cylinder block (20), of cylinder block (20) and rotor (61), or of crankshaft (50) and external bearing (120), the parts of at least one of the pairs of parts carrying respective confronting mechanical stops which are maintained spaced apart by an axial gap (FA) smaller than a magnetic axial gap (FM) higher than zero and to be maintained between the magnet elements (101) of a magnetic axial bearing assembly (100).

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